## U. S. DEPARTMENT OF COMMERCE CHARLES SAWYER, Secretary WEATHER BUREAU F. W. REICHELDERFER, Chief

# LOCAL CLIMATOLOGICAL SUMMARY

#### WITH COMPARATIVE DATA

1950

TUCSON, ARIZONA

Compiled under the direction of Robert L. King



				Temp	eratu	re						Precipit	ation				Rela humi		l		Wi	nd .								Num	ber of	days				
Month	A	Avera	ges			Extr	emes						Snow	r, Sleet,	Hail	KST	KST	LST.	TSI	70	1	Fastest	mile	ossible	cover	Sunri	se to su	nset	lore .	Hadi	a		Max.	bennap.	Min. t	emp.
	Daily maximum	Daily	minimum	Monthly	Highest	Date	Lowest	Date	<b>Degree day</b>	Total	Greatest in 24 hrs.	Date	Total	Greatest in 24 hrs.	Date	5:30 a. MS	11:30 a. M	5:30 p. MS	11:30 p. N	Average hourly speed Prevailing	direction	Direction	Date	Percent of posture	Average sky sunrise to s	Clear	Partly cloudy	ğ	Precipitation Ol inch or m	Snow, Sleet, 1.0 or more	Thunderstorn	Heavy fog	90° and above	32° and below	32° and below	Zero and below
JAN. FEB. MAR. APR. MAY JUN. JUL. SEP. OCT. NOV.	64.1 71.3 76.2 85.5 88.1 98.4 93.5 98.4 92.5 79.0	45 52 55 64 72 71 64 61 47	.0 .1 .9 .0 .8 .1 .0 .2 .1	50.4 57.2 60.7 69.2 71.6 31.6 32.8 34.7 78.3 76.8 53.0 56.9	92 95 96 107 106 108 107 99 86	20 18 30 21 21 29 1 31 1 8-11 26 10	17 32 35 40 38 53 67 67 55 52 37	6 1 13 10 5 8 30 1 23 28 12 28	445 216 154 22 21 0 0 0 72 242	0.30 1.48 0.26 T 0.01 1.24 3.72 0.86 1.15 T 0.27	T 0.01 1.12 1.51 0.35	11 25-26 8 4 21-22 21-22	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0		7 31	58 56 43 32 27 33 69 52 47 38 43 39	36 32 23 15 16 46 28 24 21 26 23	30 26 17 11 10 15 41 24 21 17 23 23	52 49 32 22 19 23 61 42 38 29 37 38	6.3 S 5.4 S 6.6 S 7.0 S 6.8 S 6.5 S 6.4 S 6.9 S 5.1 S 6.7 S 6.8 S	SE S	33 SW 28 SE 11 SW 26 S 29 W 12 S 11 NE 16 W 16 S 16 E 18 E	24 26 25 22 4 21 1 1 7 12 10 31	82 88 93 94 90 66 92 89 95	5.3 4.8 4.6 2.9 2.9 2.0 7.3 3.0 2.5 2.3 3.2	11 12 13 18 21 22 1 17 19 23 19	7 4 9 8 4 5 15 12 8 4 6	13 12 9 4 6 3 15 2 3 4 5 8	3 2 4 0 1 1 2 16 5 2 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1 0 0 3 16 6 3 1	00000000000	0 0 1 5 14 29 22 31 24 26 0	000000000000000000000000000000000000000	9 2 0 0 0 0 0 0	
Year	84.4	54	.5	39.4	108	AUG. 31	17	JAN.	1172	9.29	1.51	JUL. 21-22	т	T	SEP. 7+	45	25	22	37	6.4 8	SE S	1 NE	JUL.	88	3.7	194	87	84	36	0	30	0	152	0	11	

<sup>#</sup> This datum will be attributed to January 1951.

### MEANS AND EXTREMES FOR PERIOD OF RECORD

			Tem	perat	ile		<u>.</u>		_					Pr	ecipita	tion							Relati numid			,	Wind	l		99				Me	an n	пшре	r of e	days		
	M	deans	<del></del>		Ext	reme	8		e day									Sno	v, Slee	t, Hail		KST	MST	IS I	-		Fe	astest	mile	sunshi	sky cover to sunset	Su	nrise		10Te	Hail	<b>8</b>	Ma	- 1	Mi ten
Month	maximum	Daily minfmum	Monthly	Record	Year	Record	Iowest	X	inea mean	Mean total	Maximum monthly	Year	Minimum monthly	Year	Maximum in 24 hrs.	Year	Mean total	Maximum	Year	Maximum in 24 hrs.	Year	5:30 a. M	11:30 a. I	ءَ اه		Prevailing direction	Speed	Direction	Year	Pct. of poss.	Average sky sunrise to s	1 1	Partly cloudy	udy	Precipitation Ol inch or n	Slee	understo	3	32°	32°
1) 1	0	10	10	10		10		10	·	10	10		10		10		10	10		9		10	10 1	10 10	5	2	3			3	9	10	10	10			_	0 10	_	_
7 62 67 72 81 90 98 99 97 94 84 74 65	.9 .3 .8 .3 .6 .7 .1 .5 .2	37.3 39.8 43.1 50.3 57.5 65.7 73.7 71.8 67.7 56.3 43.9 38.9	53.8 57.7 66.0 73.9 82.1 86.7 84.5 81.1 70.2 59.0	89 92 102 105 109 110 109 107 99	1947 1942 1942 1944 1945 1950 1947	20 28 27 38 52 65 64 48 35 28	1942	31 32 32 35 30 1 1 1 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	17 7 7 0 0 0 *	0.31 0.21 0.16 1.98 2.17 1.46 0.63 0.45	2.22 2.27 1.46 1.06 0.89 1.24 3.72 4.31 3.59 1.13 1.78 2.01	1941 1941 1943 1950 1950 1945 1943 1944	0.02 0.19 T 0.00 0.00 0.27 0.86 0.14 T	1947+ 1942+ 1942+ 1947 1950 1945 1950	1.49 1.18 0.74 0.89 1.12 2.26 1.50 2.73 0.84	1942 1943 1941 1943 1950 1945 1943 1943 1945	0.5 0.1 T 0.0 0.0 0.0 T 0.0 T 0.0 0.0	1.1 0.1 0.0 0.0 0.0 T 0.0 T 0.0	1949 1946 1949 1948+ 1950	0.1 0.0 0.0 0.0 T 0.0	1946 1949 1948+ 1950	44 34 32 55 65 56 56	23 1 17 1 17 1 32 2 38 3 33 2 32 2	8 34 3 25 4 24 9 45 5 54 9 46 19 47	7.5 7.2 6.8 7.3 6.8 7.1	SSE SSE SSE	30 41 33 30 42 52 46 46 47 42	e Sw e Sw e Nw s se nw	1949 1949 1950 1948 1950 1948 1950 1948 1948 1948	77 84 92 94 91 73 86 85 90	4.7 4.8 4.6 3.7 2.9 2.3 5.6 4.3 3.3 3.1 4.6	11 14 15 19 21 9 11 18 19	9 7 7 9 7 12 13 8 8 7	9 10 10 5 2 10 7 4 4 4	4 4 2 1 1 9 5 4 2 4	* * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	* * 1 * * 2 11 12 63 1 *	* 0 * 0 0 19 0 29 0 29 0 30 0 24 0 8 * 0	00000000000	851 * 000000NB
82.	.4	53.8	68.1	110	JUL 1942		JAN 1949		5	10.53	4.31	AUG. 1945	0.00	MAY 1942+	2.73	SEP. 1943	0.9	4.7	JAN. 1949	3.5	JAN. 1949	53	31 2	7 45	7.2	SSK	52	NW	JUL. 1948	85	4.0	183	101	81	49	* 3	36	*145	0	22

<sup>(</sup>a) Length of record, years.

#### TOTAL PRECIPITATION

TUCSON, ARIZONA 1950

#### AVERAGE TEMPERATURE

														)														
Year	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	An'l.		Yеат	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1900 1901 1902 1903 1904	51.0 50.4 48.9	52.0 52.6 45.3	55.6 54.1 55.1	61.7 66.3 62.2	72.2 71.5 70.0	79.4 83.1 80.4	87.3 84.4 85.8	84.8 84.1 85.8	79.6 79.8 78.4	69.4 71.0 67.4	61.4 55.0 60.1	51.6 50.4 50.3 51.8 47.8	67.1 66.9 65.9		1900 1901 1902 1903 1904	.16 1.15 .53 .00	.49 1.38 T 1.11 .54	.54 .64 .44 1.63	1.12 .04 T .00	.41 T .20	.17 .00 .19 .22 .18	.65 2.57 .42 1.52 1.75	.95 1.99 1.31 2.67 2.65	.85 .28 .58 1.17 .89	.41 1.18 1.64 .00	2.45 .08 1.34 .00	T .00 2.15 .28 .93	7.79 9.72 8.60 8.80 7.85
1905 1906 1907 1908 1909	50.6 51.4 51.2	55.2 56.0 51.4	58.4 58.4 58.8	62.0 65.2 64.2	69.7 70.8 68.2	80.0 78.0 79.2	86.2 85.8 83.8	81.8 83.0 82.4	79.1 80.0 78.2	68.8 69.6 63.8	57.8 58.1 58.0	47.2 53.5 51.4 51.0 47.4	66.9 67.3 65.8		1905 1906 1907 1908 1909	2.25 .50 1.76 .76 .51	4.15 .33 .75 2.08 .50	3.88 .33 .56 .39	3.53 .50 .15 .10	.02 T .43 .16	.24 .00 T T	1.10 1.82 4.27 4.77 4.04	.56 2.53 3.46 2.18 1.36	.2.84 .43 .80 .55 1.25	.09 T 1.13 .26 .00	4.61 .74 .78 .17 .87	.90 4.57 .00 2.62 .81	14.04
1910 1911 1912 1913 1914	54.6 50.6 44.8	51.8 51.7 50.2	62.7 55.9 53.9	64.8 58.7 64.0	72.7 70.7 71.1	81.4 83.0 78.2	83.6 81.6 83.5	85.0 82.6 83.5	81.2 76.8 78.0	67.0 65.6 66.9	51.0 57.2 59.5	52.6 45.0 45.8 48.8 47.5	66.7 65.0 65.2		1910 1911 1912 1913 1914	1.02 1.31 .00 .80 .15	T .99 .37 1.86 .52	.10 .25 2.12 .12 1.18	.08 .27 .28 .70	T .00 .32 T .49	.12 .07 .61 .08 1.31	4.21 1.57 3.00 1.32 2.94	2.55 2.06 .96 1.21 3.45	.30 2.65 .01 .14 .40	.04 1.23 1.78 .22 2.59	1.32 T .00 1.98 1.02	.06 .85 .39 .89 5.85	9.80 11.25 9.84 9.32 19.90
1915 1916 1917 1918 1919	50.8 48.6 47.8	57.9 50.1 54.6	61.6 53.6 60.9	64.0 61.8 64.2	70.4 66.6 69.6	80.2 82.2 85.4	84.4 85.6 86.2	82.8 83.1 81.8	79.4 80.1 81.4	66.2 70.8 70.0	55.4 60.2 56.2	49.4 47.0 53.0 49.0 52.8	66.7 66.3 67.3		1915 1916 1917 1918 1919	1.33 4.00 1.92 1.40	1.68 .58 .44 1.26 .87	.76 .50 .15 .32 .63	.35 .51 .28 .04 1.10	.15 .00 .82 .18 .82	.14 .07 .00 .34 .32	2.39 2.03 3.90 1.54 5.53	1.51 2.26 2.31 .78 1.82	.92 1,29 .88 .13 2,54	.00 1,10 T .68 .35	1.04 .00 .00 1.04 3.13	2.35 .81 .00 1.41 .64	12.62 13.15 10.70 9.12 18.01
1920 1921 1922 1923 1924	52.0 48.0 54.0	54.0 52.6 53.8	60.7 55.4 56.0	61.6 60.6 64.2	69.0 73.4 74.3	79.5 83.0 78.4	84.1 85.6 84.5	81.8 84.2 80.8	78.6 80.6 76.7	70.6 69.4 65.4	58.3 53.0 56.0	47.3 54.4 53.6 49.8 50.4	67.0 66.6 66.2		1920 1921 1922 1923 1924	2.29 .34 1.20 .27 .00	1.00 .47 .20 .36 T	1.96 .13 1.36 .65 1.65	.16 .62 .76 .53	.21 T .15 .05	.56 .22 .44 .00	.25 6.24 1.73 3.00 1.15	2.84 1.79 1.18 4.06 .08	.74 3.01 1.73 .23 .19	.55 .25 .22 .00 .16	.01 .59 .32 3.43 .61	.15 .12 .10 2.64 .65	10.72 13.78 9.39 15.22 5.07
1925 1926 1927 1928 1929	46.2 54.8 50.8	55.3 56.4 52.0	59.6 57.0 60.3	64.7 64.8 62.9	72.0 73.2 75.4	82.5 80.3 82.0	85.5 87.0 87.2	86.0 84.0 83.5	80.9 78.9 81.0	71.2 69.1 70.6	59.0 61.7 57.9	50.3 50.6 48.3 49.8 52.8	67.8 68.0 67.8	Į.	1925 1926 1927 1928 1929	.04 .64 .07 .00	.07 .67 1.02 .83 .49	.15 1.60 1.40 .00	.36 1.42 .44 .03	T .60 .01 .09	.86 .01 .20 .09	1.20 .70 1.31 1.78 1.94	1.52 .10 1.51 2.28 1.62	2.82 2.34 .36	1.08 1.36 T .08	1.24 .34 .09 .44 .05	.33 1.89 1.33 .52 .16	9.80 12.15 9.72 6.50 9.33
1930 1931 1932 1933 1934	49.8 43.3 47.7	53.6 54.6 47.5	57.8 57.4 57.8	67.2 63.5 60.6	73.4 71.7 67.1	81.5 79.6 82.4	88.6 85.5 87.4	82.2 85.2 85.8	80.5 80.6 81.6	68.8 67.8 72.0	54.0 60.0 59.4	50.3 48.4 47.2 52.2 52.3	67.2 66.4 66.8		1930 1931 1932 1933 1934	.81 .68 .74 .93	1.23 2.95 1.27 .24 .30	2.32 .16 .40 .00 .39	.57 .48 .32 .03	.93 1.34 T .00	1.12 .49 .16 .10	1.07 2.58 1.60	1.47 3.96 1.61 2.23 2.41	1.62	.09 .05 1.62 2.00 T	1.04 3.72 .00 .47	.29 .42 2.01 .38 2.04	11.27 16.26 10.94 9.60 8.59
1935 1936 1937 1938 1939	48.8 41.2 52.4	53.2 52.8 54.2	59.0 56.0 57.6	66.9 62.8 65.5	75.3 73.8 71.3	83.8 81.2 81.8	86.8 86.3 84.4	83.8 86.0 83.3	77.6 81.8 81.2	68.6 71.0 70.0	59.9 59.4 54.8	51.5 50.8 54.3 53.0 56.2	67.9 67.2 67.5		1935 1936 1937 1938 1939	1.25 .96 1.62 .65 .35	2.43 .92 .23 .88 1.60	1.46 .55 .63 .43	.07 .01 .08	.14 T .25 .11	T .06 T 2.07	.87 2.82 2.06 .78 .61	5.61 3.03 1.29 2.37 1.24	1.43	.00 .34 .05 .00	1.89 1.13 .19 .09 .54	1.24 .85 .67 .93 .27	15.77 12.24 8.43 8.89 7.05
1940 1941 1942 1943 1944	52.6 53.0 52.8	56.5 50.8 58.7	56.9 55.8 61.8	59.8 63.6 70.4	72.9 73.1 76.3	80.2 82.9 83.2	86.4 89.8 88.0	83.2 85.2 83.9	79.4 81.6 82.0	67.2 69.4 70.8	60.6 63.2 61.6	56.5 52.0 54.2 52.5 52.3	67.3 68.5 70.2		1940 1941 1942 1943 1944	.45 1.43 .50 .44 .36	1.42 2.27 1.92 .39 1.10	.04 1.46 .23 1.27 1.01	.21 1.06 .79 .03 .56	.52 .74 .00 .89 .37	1.19 T .00 .13	.68 2.51 .68 1.09 1.77	3.51 1.99 .90 3.04 1.78	1.20 1.78 3.59	.17 .53 .60 .25 1.13	1.75 .65 T .00 1.78	3.07 2.01 .47 .79 1.55	
1945 1946 1947 1948 1949	48.0 48.4 51.5	52.0 57.8 50.8	59.4 59.6	70.6 64.8 68.0	73.0 76.8 75.1	85.4 82.1 83.4	86.0 88.2 86.8	84.0 83.7 85.2	80.9 83.0 82.6	65.9 70.4 71.1	54.8 54.2 53.6	50.4 55.6 48.2 51.2 50.8	68.0 68.1 67.8		1945 1946 1947 1948 1949	.58 2.22 .14 T 1.19	.47 .22 .02 2.00 .20	.53 .50 .39 .29 .19	.11 .14 T T .38	.00 .00 .04 .00	.00 .04 .05 .06	2.84 2.44 .27 3.02 1.42		.14 2.26 .47 1.11 .81	1.13 .82 .80 .56 .52	.00 1.10 .70 .06	.47 .46 .41 .93 .84	10.58 13.81 5.53 9.11 7.66
1950	50.4	57.2	60.7	69.2	71.6	81.6	82.8	84.7	78.3	76.8	63.0	56.9	69.4		1950		1.48		,		1.24	3.72	.86	1.15	Т	т	.27	9.29

From records: U of A Weather Station - January, 1900 to May, 1940. Weather Eureau Office - June, 1940 to December, 1950.

#### MONTHLY AND SEASONAL DEGREE DAYS

Season	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total
1934-35	0	0	0	18	276	394	395	276	310	63	41	0	1773
1935-36	0	0	0	56	317	413	493	341	246	83	6	0	1955
1936-37	Ó	0	I о	36	171	444	738	344	281	95	Ó	0	2109
1937-38	0	0		0	176	333	389	302	233	83	22	0	1538
1938-39	0	0	0	20	327	368	455	542	218	32	0	0	1962
1939-40	0	0		29	120	280	385	352	169	61	٥	0	1396
1940-41	0	0	0	36	-255	269	383	241	241	175	33	0	1633
1941-42	0	0		59	159	405	372	399	285	93	6	0	1778
1942-43	0	0	0	31	82	328	375	190	125	48	Ó	0	1179
1943-44	0	0	l o	43	118	386	458	414	269	95	4	0	1787

Season	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Tot
1944-45	0	0	0	2	287	392	448	315	324	137	1	0	1
1945-46	0	0	2	7	206	451	526	370	196	22	0	0	1
1946-47	0	0	0	51	308	304	513	205	175	76	2	0	1
1947-48	0	0	0	19	337	518	417	408	341	41	0	0	2
1948-49	0	0	0	23	344	428	683	414	230	64	0	0	2
1949-50	0	0	0	78	56	442	445	216	154	22	21	0	1
1950	0	0	0	0	72	242						1	l

#### REFERENCE NOTES

Unless otherwise indicated, dimensional units used in this bul-letin are: temperature in degrees F.; precipitation and snowfall in inches; wind movement in miles per hour; and relative humid-ity in percent.

Sky cover is based on 0 for no clouds or obstructions to 10 for complete sky cover. Degree days are based on daily average temperatures of 65° F. Sleet and hail were included in snowfall totals, beginning with July, 1948.

Data for earlier years may be obtained by contacting Weather Bureau Office for which this summary was issued.

Heavy fog in the Means and Extremes Table also includes data referred to at various times in the past as "Dense" or "Thick".

The upper visibility limit for heavy fog is 1/4 mile.

Below zero temperatures are preceded by a minus sign.

- Less than one half.
   No record.
   Also on later dates, months, or years.
   Trace, an amount too small to measure.

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#### STATION HISTORY

The Weather Bureau Office at Tucson, Arizona was established on June 17, 1940, with a portion of the responsibility for the observational program retained by the CAA'. Observations were taken over on a 24-hour basis by the Weather Bureau on August 2, 1940. Pilot balloon observations were begun in 1942. The station was opened in the Administration Building at the Tucson Municipal Airport, 5-12 miles east of the Post Office (now Davismonthan Air Force Base). Elevations above ground of the instruments at this location were: thermometers 5.0 feet, rain gage 4.5 feet, and anemometer 33.0 feet. In June, 1947, the rain gage was moved from the ground exposure to the roof of the Administration Building, where the top of the gage was 14.2 feet above the ground.

On October 14, 1948, the station was moved to its present location in the north end of Building No. 12 at the new Tucson municipal Airport, 6-1/2 miles south of the Post Office. The first observation at the present office was taken at 5:30 p.m.,

October 14, 1948. The elevations above ground of the instruments are: thermometers 5.0 feet, rain gages 5.0 feet, and anemometer 32.6 feet. The office is located on an extensive concrete ramp, but the instrument shelter, telepsychrometer screen, and rain gages are mounted on an elevated grass plot 50' x 50' near the east side of the building. Pilot balloon observations were discontinued August 4, 1949.

Within a ten mile radius of the station, the terrain is mostly flat or gently rolling, with many dry washes. There is a general increase in elevation from north to southeast and south. The ground is sandy, and is covered with brush, cacti, and some small trees. Rugged mountain ranges and jutting hills surround the station. The higher mountains to the north, east, and south reach up to over 6000 feet above the airport, and are at distances from 25 to 40 miles. To the west are hills and smaller mountains ranging from 500 to 4000 feet in elevation, and all more than 5 miles distant.

#### NARRATIVE CLIMATOLOGICAL SUMMARY

As might be expected from its geographical situation, the climate of Tucson is characterized by an extremely long hot season, beginning in April and ending in October. From May through September, maximum temperatures above 90° are the rule, with the mean maximum temperature exceeding 100° in July. Under usual conditions, the diurnal temperature range is large, averaging almost 30°. Under extreme conditions, the diurnal range may exceed 40°. Clear skies or very thin cloudiness permit intense surface heating during daytime, and active radiational cooling at night, a process which is enhanced by the extreme dryness of the air. The average growing season in this area is approximately 250 days.

During the year, most of the precipitation falls in two main periods. Over half of the year's total is usually recorded in the period July through September 15th, when numerous convective type showers or thunderstorms of sporadic nature occur, often filling dry washes to overflowing. On occasions, torrential downpours may cause spectacular and destructive flash floods; short period falls of over 1.50 inches are not uncommon. Hail does not often fall in thunderstorms, and sleet is an almost unknown type of precipitation. The period providing the secondary precipitation maximum, December through March, sees more general, longer-lived rain storms which furnish much needed runoff for ground water. During these storms, snow often falls on the higher mountains, but snow in Tucson is rare, particularly accumulations exceeding an inch in depth.

Relative humidity shows a pronounced diurnal oscillation, in line with the usual great daily range in temperature. From the first of the year, the average relative humidity drops steadily until July and the beginning of the thunderstorm season. By the middle of September, and the end of this season, it begins to decrease again, resuming the upward climb in late November. Only occasionally during the summer is relative humidity high enough

to produce any degree of physical discomfort, and then only for short periods. During the hot season, relative humidity values often fall below 10% during afternoons, and sometimes below 5%. The low average wet bulb temperature during hot weather makes evaporative type air coolers very effective in this area.

Tucson lies in a zone which receives more sunshine than any other section in the United States; the persistence of the bright sunshine being one of the most noteworthy features of the climate. Cloudless days are commonplace, and average cloudiness, much of it being very thin cirriform clouds, is low.

Surface wind velocities are generally light, with no important seasonal change. Occasional wind storms cause localized dust storms, particularly in the metropolitan section, where the ground has been disturbed in numerous development areas. During the spring months, wind velocities are sometimes high enough to cause some damage to trees and buildings. Wind directions and velocities are influenced to an important extent by the surrounding mountains. For example, at the University of Arizona in Tucson, the prevailing wind direction is NW, and at the Weather Bureau Office, 6.5 miles S, the prevailing direction is SE, with a nighttime prevailing direction of SE and a daytime direction of from W to NE. Highest wind velocities usually occur with winds from the SW and E.

The principal lithometeors observed in the area are dust and haze. The stabilizing effect of rapid radiational cooling during the evening hours, particularly in winter, brings about the concentration of layers of dust stirred up by traffic on unpaved roads in the outlying districts. These inversion layers are usually broken and diffused by noon of the following day. Normally, visibility values are quite high. Fog is a rare occurrence, as well as any concentration of smoke.

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